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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/670,054	09/24/2003	Peter Traneus Anderson	131992NV (14298US01)	4740
	7590 11/24/201 S HELD & MALLOY,	EXAMINER		
500 WEST MADISON STREET SUITE 3400 CHICAGO, IL 60661			PATIDAR, JAY M	
			ART UNIT	PAPER NUMBER
			2858	
			MAIL DATE	DELIVERY MODE
			11/24/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
Office Action Comments	10/670,054	ANDERSON, PETER TRANEUS		
Office Action Summary	Examiner	Art Unit		
	JAY M. PATIDAR	2858		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.11 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period vor Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 13 Section 2a) This action is <b>FINAL</b> . 2b)  This 3) Since this application is in condition for alloware closed in accordance with the practice under Expression 1.	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 10-29 is/are pending in the application 4a) Of the above claim(s) 10-15 is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 16-29 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o  Application Papers 9) ☐ The specification is objected to by the Examine	vn from consideration. r election requirement.			
10) ☐ The specification is objected to by the Examine  10) ☐ The drawing(s) filed on 13 April 2004 is/are: a)  Applicant may not request that any objection to the  Replacement drawing sheet(s) including the correct  11) ☐ The oath or declaration is objected to by the Examine	☐ accepted or b)☐ objected to be drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	te		

- 1. This communication is in response to applicant's amendment received on September 13, 2010.
- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the first-fourth tracking system as set forth in claims 28-29 must be shown or the feature(s) canceled from the claim(s).

No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet"

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pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. Claims 16-17,29 are objected to because of the following informalities:

In claim 16, the term "operable" is not a positive limitation; it is not
positively recited because it just refers to tracker electronics that can be used
with a plurality of coils;

In claim 17, it is vague as to what is meant by "a processing scheme"; it is not clearly defined;

In claim 29, the structure as claimed is vague; a third and fourth tracking system coil architecture are being claimed; it is unclear as to whether a first and second tracking coil architecture are there or not and where these coil architectures are located; perhaps applicant intends to depend this claim on claim 28; Furthermore, the phrase "an array of size or more" is not clearly understood.

Appropriate correction is required.

4. The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this
Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 16-22,24,26-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Anderson et al. (2003/0184285).

As to claims 16-17, Anderson discloses a magnetic tracking system including at least one of a transmitter T,Tx,Ty,Tz and a receiver R,Rx,Ry,Rz for measuring a position in a coordinate system (e.g. paras 0004,0008, Note Abstract); a single tracker electronics (e.g. figs. 2-4) for determining position of the at least one of a transmitter and a receiver using information from the transmitter or receiver (e.g. paras 0056,0064) and the tracker electronics could equally function with a plurality of tracking system coil architectures (paras 0094-0098, fig. 6; note whole document).

As to claims 18-21, Anderson discloses tracker electronics that can support a plurality of tracking system architectures (e.g. fig. 6).

As to claims 22,24, the memory is used to store signals for processing (e.g. para 0043).

As to claims 26-27, the processor determines the position of the transmitter or receiver (see abstract; para 0003).

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5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 23,25,28-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson in view of Anderson (2005/0003757; herein after refer to '757).

Anderson discloses a magnetic tracking system as explained above.

Anderson does not explicitly disclose tracker electronics to generate waveforms on demand or software code and different arrangements of the transmitters and receivers. The use of different transmitters and receivers configurations are known in the art for its use. '757 is cited to show these features. '757 teaches that it is well known in the art to use collocated dipole orthogonal or non-dipole non-collocated transmitters and quasi dipole receivers (see paras 0010-0012). The provision of employing electronics or processing means to generate waveforms or signals on demand would be within the level of ordinary skill in the art. Consequently, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Anderson to have

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included different configurations of the transmitters and receivers as taught by '757 to accurately determine the position of either transmitter or receiver.

- 6. Applicant's arguments with respect to rejected claims have been considered but are moot in view of the new ground(s) of rejection.
- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jay M. Patidar whose telephone number is 571-272-2265. The examiner can normally be reached on M-Thur 7:00-5:30.

The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Jay M. Patidar/ Primary Examiner Art Unit 2858